# **LMA District Cover Sheet**

**Spring 2018 Levee Inspection Results** 

# **Sutter Maintenance Yard Maintenance Area 0016**

	(March - May)	(June - August)	(September - November)	(December - February)
† Overall LMA Rating (Fall Only)				
;	** Non-receipt of Summ Reports may effect o			
† SPRING INSPECTIONS: Overall maintenance deficiencies are rated				ual maintenance
FALL INSPECTIONS: The overall maintena within the attached ur			tion and maintenance de ended to be an indiction o	
Comments				

### **Unit Cover Sheet**

**Spring 2018 Levee Inspection Results** 

# **Sutter Maintenance Yard Maintenance Area 0016**

Waterway	Bank	Unit Miles
Unit No. 01 Feather River	Right	4.06

	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	3/20/2018 - 3/20/2018			
DWR Inspector	Sterling York			
Accompanied By	Shawn Freitag Sutter Maintenance Yard			

### **Summer & Winter Inspections**

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

### http://cdec.water.ca.gov/lma.html

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

# Levee Inspection Report By Mile - Spring 2018

# **Sutter Maintenance Yard Maintenance Area 0016**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	4.06	03/20/2018 03/20/2018	Sterling York

LM Start		Rating **	Α	Issue No.		3	
LM End		Issue Type +	Ma	Location *			
Category	Earthen L	evee		GPS La	atitud	e/Longitude	
Category				Start		End	
Item	Operations & Maintenance				0		0
пеш	Manuals	Manuals			٥		0
DWR ID	DWR_MA0	016_01_s _ 201	3_3				
		Comn	nent Cod	le			
			_				
		Inspecto	or Comm	nent			
SBFCA has turned over levee to MA 16.The O&M manuals are located at the Sutter Maintenance Yard.							

No Photos

LM Start		Rating **	Α	Issue No.		4	
LM End		Issue Type +	Ma	Location *			
Category Earthen Levee			GPS La	atitud	le/Longitude		
Category				Start		End	
Item	Flood Pre	paredness &	Training		0		0
item					0		0
DWR ID	DWR_MA0	016_01_s _ 201	3_4				
		Comn	nent Cod	le			

No Photos

Inspector Comment

Sutter maintenance yard employees attend the annual Flood Fight class put on by DWR.

LM Start		Rating **	Α	Issue No.		5			
LM End		Issue Type +	Ma	Location *					
Earthen Levee			GPS L	atitud	de/Longitude				
Category			Start		End				
Item		cy Supplies &			0		0		
пеш	Equipmer	nt			0		0		
DWR ID	DWR_MAG	016_01_s _ 201	13_5						
		Comn	nent Cod	le					
	Inspector Comment								

No Photos

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 aunnlina	224	oquinmont	 +

Emergency supplies and equipment are stored at the Sutter Maintenance Yard.

* Location	** Rating		+ Issue Type
LS: Land Side N/A: Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency
WS: Water Side	M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence
CR : Crown	U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En: Enforcement

# Levee Inspection Report By Mile - Spring 2018

# **Sutter Maintenance Yard Maintenance Area 0016**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	4.06	03/20/2018 03/20/2018	Sterling York

LM Start	0.01	Rating **	Α	Issue No.		8			
LM End	4.05	Issue Type +	Ma	Location *		LS			
Category	Earthen L	evee		GPS La	atitud	e/Longitude			
Category				Start		End			
Item	Vegetatio	Vegetation			26°	39.310826°			
пеш				-121.6363	95 °	-121.637674°			
DWR ID	DWR_MA0	016_01_s _ 201	8_8						
		Comn	nent Cod	le					
V1 : Control annual grass and weeds on the levee slopes and easements.									
Inspector Comment									
The annual vegetation is well maintained, Spring 2017.									



View looking upstream landside of the well maintained annual vegetation, Spring 2018.

LM Start	0.01	Rating **	Α	Issue No.		7	
LM End	4.05	Issue Type +	Ma	Location *	WS		
Earthen Levee			GPS Latitude/Longitude				
Category				Start		End	
Item	Vegetatio	n		39.2559	64°	39.310826°	
iteiii				-121.6364	21 °	-121.637674°	
DWR ID DWR_MA0016_01_s _ 2018_7							
Comment Code							

V1 : Control annual grass and weeds on the levee slopes and easements.

### Inspector Comment

The annual vegetation is well maintained, Spring 2017.

# Photo 1 of 1: SP\_2018\_MA0016\_302\_7\_20180402\_00014.jpg



View looking upstream waterside of the well maintained annual vegetation, Spring 2018.

# Levee Inspection Report By Mile - Spring 2018

# **Sutter Maintenance Yard Maintenance Area 0016**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	4.06	03/20/2018 03/20/2018	Sterling York

LM Start	0.16	Rating **	С	Issue No.		12					
LM End	0.16	Issue Type +	Ma	Location *							
Catagony	Category				Supplemental			GPS La	atitud	e/Longitude	
Calegory				Start		End					
Item	2017 Stor	m Damage		39.2581	05 °	39.258105	0				
пеш				-121.6363	14 °	-121.636314	0				
DWR ID	ID DWR_MA0016_01_s _ 2018_12										
		Comn	nent Cod	le							

Inspector Comment

Levee Evaluation Comments

Description: Site ID No:143

Site Designation:MA16-01 Repair Type: Erosion Rating:Serious Field Date:7/13/2017

Notes: 2017 Storm Damage has been repaired.

No Photos

No Photos

LM Start	1.86	1.86 Rating ** C		Issue No.		9	
LM End	1.86	Issue Type + Ma		Location *		LS	
Category	Earthen Levee				atitud	e/Longitude	
Calegory				Start		End	
Item	Trim / Thi	n Trees		39.2821	31 °	39.282131	0
iteiii				-121.6321	17°	-121.632117	0
DWR ID	DWR_MA0016_01_s _ 2018_9						

Comment Code

T1: Trim trees to at least five feet above ground level.

Inspector Comment

Limbs have been trimmed for access and visibility, Spring 2018.

N: Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain + Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence En: Enforcement

# Levee Inspection Report By Mile - Spring 2018

# **Sutter Maintenance Yard Maintenance Area 0016**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	4.06	03/20/2018 03/20/2018	Sterling York

LM Start	2.85	Rating **	М	Issue No.		14		
LM End	3.08	Issue Type +	En	Location *		LS		
Category	evee		atitud	e/Longitude				
Category				Start		End		
Item	Encroach	ments		39.2936	75°	39.296748°		
пеш				-121.6366	15 °	-121.638192 °		
DWR ID	DWR ID DWR_MA0016_01_s _ 2012_14							
		Comn	nent Cod	de				
DT : Ditch								
		Inspecto	or Comm	nent				

LM Start	2.85	Rating **	M	Issue No.	14 (cont)
LNAFad	2 00	Iceua Tyna +	En	Location *	1.0



Agricultural ditch land side slope and toe.

Photo 2 of 2: SP\_2018\_MA0016\_302\_14\_20180402\_00016.jpg



LM Start	3.06	Rating **	С	Issue No.		10			
LM End	3.06	Issue Type +	En	Location *		WS			
Category	Earthen L	evee		GPS La	atitud	le/Longitude			
Calegory				Start		End			
Item	Encroach	Encroachments 39.296536° 39							
пеш				-121.6381	25 °	-121.638125 °			
DWR ID	DWR ID DWR_MA0016_01_f _ 2017_10								
		Comn	nent Cod	le					
TR : Tree	or limb								
		Inspecto	or Comm	nent					
The fallen	tree has b	een removed,	Spring 2	2018.					

No Photos

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement

# Levee Inspection Report By Mile - Spring 2018

# **Sutter Maintenance Yard Maintenance Area 0016**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	4.06	03/20/2018 03/20/2018	Sterling York

LM Start	3.39	Rating **	М	Issue No.		15
LM End	3.39	Issue Type +	Ma	Location *		
Category	Suppleme	ental		GPS La	tituc	le/Longitude
Calegory				Start		End
Item	DWR UC	IP LMA Respo	onsibility	39.30121	8 °	39.301218°
пеш				-121.63833	32 °	-121.638332 °
DWR ID						

### Comment Code

### Inspector Comment

FS\_ID:51931 DS\_ID:17125 EP\_NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 5/22/2017 LS inlet buried. WS access being blocked off by over grown vegetation. Pipe has been selected for internal cleaning and inspection as part of the DMP project. (DWR Sutter Yard -AFreitag)12/1/2016 LS inlet completely buried. (DWR Sutter Yard-AFreitag)5/26/2016 LS inlet was completely buried.6/8/2015 Concrete headwall is still cracked and inlet is buried. It was said to be replaced with the SBFCA project but the project skipped over in this area.12/29/2014 Same as last inspection.5/19/2014 Same as last inspection.11/6/2013 Same as last inspection.5/14/2013 SBFCA project recommends replacing in accordance with title 23. Same as last inspection.12/11/2012 Concrete headwall on LS toe is cracked through middle and pipe is burried in soil. pipe appears corroded. FIELD\_STRUCT\_DESC: 1 of 2: 24-inch corrugated metal drainage pipe through the levee, 16.6 feet below the crown. Concrete headwalls on both the waterside (WS) and the landside (LS) ends. Flap gate on the WS end. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 148, August 1955, (Station 646+96)]. FS Date: 5/31/2017 7:29:38 AM

LM Start	3.39	Rating **	М	Issue No.	15 (cont)
LM End	3.39	Issue Type +	Ma	Location *	

# Photo 1 of 2 : UCIP\_SP\_2018\_51931\_65782.jpg

Headwall at LS toe is cracked and the inlet is burried in soil.

### Photo 2 of 2: UCIP SP 2018 51931 65781.jpg



Headwall on WS toe with flap gates.

Location Rating Issue Type LS: Land Side Ma: Maintenance Deficiency N/A: Not Applicable N: Not Inspected/Rated : Acceptable Minimally Acceptable Ob: Design & System Obsolescence WS: Water Side C: Corrected En: Enforcement CR: Crown U: Unacceptable A/W: Acceptable but Monitor & Maintain

# Levee Inspection Report By Mile - Spring 2018

# **Sutter Maintenance Yard Maintenance Area 0016**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	4.06	03/20/2018 03/20/2018	Sterling York

LM Start	3.39	Rating **	М	Issue No.		16	
LM End	3.39	Issue Type +	En	Location *			
Category			GPS Latitude/Longitude				
Calegory				Start		End	
DWR UCIP Field Study			39.3012	18°	39.301218°		
пеш				-121.6383	32 °	-121.638332 °	
DWR ID							

# Comment Code

### Inspector Comment

FS\_ID:51932 DS\_ID:17183 EP\_NO: N/A

Repair Type: Non-Urgent Crossing Status: Indicator Found

UCIP Comments: 5/22/2017 LS inlet is buried. WS access is being blocked off by overgrown vegetation. (DWR Sutter Yard -

AFreitag)12/1/2016 LS inlet is completely buried. (DWR Sutter Yard-AFreitag)5/26/2016 LS inlet was completely buried.6/8/2015

Concrete headwall is still cracked and inlet is buried. It was said to be replaced with the SBFCA project but the project skipped over in this area.12/29/2014 Same as last inspection.5/19/2014 Same as last inspection.5/14/2013 SBFCA project recommends replacing in accordance with title 23. Same as last inspection.12/11/2012 Pipe burried on LS toe and should be inspected along with adjacent 24-inch once uncovered.

FIELD\_STRÚCT\_DESC: 2 of 2: 24-inch corrugated metal drainage pipe through the levee, 16.6 feet below the crown. Headwalls at both the waterside (WS) and landside (LS) ends and a flap gate on the WS toe. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 148, August 1955 (Station 646+96)]. FS Date: 5/31/2017 7:32:55 AM

LM Start	3.39	Rating **	М	Issue No.	16 (cont)
LM End	3.39	Issue Type +	En	Location *	



Pipe should be located on either side of the one visible in this picture.

### Photo 2 of 2: UCIP\_SP\_2018\_51932\_65779.jpg



Headwall and flap gate on WS toe.

# Levee Inspection Report By Mile - Spring 2018

# **Sutter Maintenance Yard Maintenance Area 0016**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	4.06	03/20/2018 03/20/2018	Sterling York

LM Start	3.94	Rating **	М	Issue No.	11			
LM End	4.09	Issue Type +	Ма	Location *	CR			
Category	Earthen L	Earthen Levee			GPS Latitude/Longitude			
Calegory				Start		End		
Crown Surface / Depressions /			39.309154°		39.311298°			
пеш	Rutting			-121.637694°		-121.637554°		
DWR ID	D DWR_MA0016_01_s _ 2018_11							
Comment Code								
C1 : Add appropriate material and re-grade the levee to bring the crown above the design elevation.								
Inspector Comment								
Re-grading and aggregate base is scheduled for summer 2018.								



View looking upstream of the crown that needs aggregate base added for an all weather access road which is scheduled for summer 2018, Spring Inspection 2018.